Available online at www.sciencedirect.com
SCIENCE DIRECT®
Optics Communications 248 (2005) 551–558
OPTICS COMMUNICATIONS
www.elsevier.com/locate/optcom

Author index to volume 248

Al-Raweshidy, H.S., see Assalem, A. 248 (2005) 221
Alam, M.S., see Haider, M.R. 248 (2005) 69
Albert, J., G. Van der Sande, B. Nagler, K. Panajotov, I. Veretennicoff, J. Danckaert and T. Erneux, The effects of nonlinear gain on the stability of semi-degenerate two-mode semiconductor lasers: a case study on VCSELs 248 (2005) 527
Andreadis, I., see Konstantinidis, K. 248 (2005) 375
Aruga, T., see Zhang, J. 248 (2005) 431
Assalem, A., S.S.A. Obayya and H.S. Al-Raweshidy, Full vectorial finite element analysis of semiconductor lasers 248 (2005) 221
Asundi, A.K., see Priyadarshi, A. 248 (2005) 191
Augé-Rochereau, F., see Renault, A. 248 (2005) 535
Auguste, T., see Renault, A. 248 (2005) 535
Aussenegg, F.R., see Salerno, M. 248 (2005) 543

Balachninaite, O., R. Grigonis, V. Sirutkaitis and R.C. Eckardt, A coherent spectrophotometer based on a periodically poled lithium niobate optical parametric oscillator 248 (2005) 15
Bali, S., see Stites, R. 248 (2005) 173
Baozhen, Z., L. Xiaoyan, L. Yuxin, W. Cheng and X. Zhizhan, Investigation of noncollinear QPM optical parametric amplification based on periodically poled KTP 248 (2005) 387
Barrera, J.F., R. Henao and R. Torroba, Optical encryption method using toroidal zone plates 248 (2005) 35
Barry, J., see Yu, J. 248 (2005) 419
Bimberg, D., see Uskov, A.V. 248 (2005) 211
Biswas, D.J., J.P. Nilaya and A. Kumar, Operation of a helium-free TEA CO_2 laser 248 (2005) 521
Blanchetière, C., see Dai, X. 248 (2005) 123
Bookey, H.T.G. and A.K. Kar, Characterisation and optimisation of a dual-channel picosecond gain-switched DFB laser system for use as a pump–probe source 248 (2005) 229
Borel, P.I., see Xing, P.F. 248 (2005) 179

Callender, C.L., see Dai, X. 248 (2005) 123
Carrasquilla, J.F., see Castañeda, R. 248 (2005) 509
Castaneda, R. and J. Garcia-Sucerquia, Radiometry and spatial coherence wavelets 248 (2005) 147

doi:10.1016/S0030-4018(05)00280-4

Castañeda, R., J. García-Sucerquia and J.F. Carrasquilla, Quality descriptors of optical beams based on centred reduced moments III: spot moments-based method for laser characterization 248 (2005) 509
Chai, Z., see Dai, C. 248 (2005) 27
Chambaret, J.-P., see Renault, A. 248 (2005) 535
Chan, J., see Cheung, C.H. 248 (2005) 287
Chan, W.K., see Cheung, C.H. 248 (2005) 287
Chanclou, P., B. Vinouze, M. Roy and C. Cornu, Optical fibered variable attenuator using phase shifting polymer dispersed liquid crystal 248 (2005) 167
Chang, G.K., see Yu, J. 248 (2005) 419
Chau, K.J. and A.Y. Elezzabi, Erratum to "Two-dimensional drift-diffusion analysis of magnetic field enhanced THz emission from semiconductor surfaces" [Opt. Commun. 242 (2004) 295–304] 248 (2005) 307
Chaubey, V.K., see Sen, S. 248 (2005) 131
Cheah, K.W., see Cheung, C.H. 248 (2005) 287
Chériaux, G., see Renault, A. 248 (2005) 535
Chen, L., see Tay, C.J. 248 (2005) 339
Chen, L., see Ding, W. 248 (2005) 479
Chen, J., see Zhou, J. 248 (2005) 407
Chen, Q., Y.-Z. Huang, W.-H. Guo and L.-J. Yu, Calculation of propagation loss in photonic crystal waveguides by FDTD technique and Padé approximation 248 (2005) 309
Cheng, W., see Baozhen, Z. 248 (2005) 387
Cheng, C.-J., L.-C. Lin and W.-T. Dai, Construction and detection of digital holographic watermarks 248 (2005) 105
Cheung, C.H., A.B. Djurišić, C.Y. Kwong, H.L. Tam, K.W. Cheah, Z.T. Liu, W.K. Chan, P.C. Chui, J. Chan and A.D. Rakić, Reduced angular dependence of the emission from tris(8-hydroxyquinoline) aluminum based microcavity 248 (2005) 287
Chui, P.C., see Cheung, C.H. 248 (2005) 287
Cornu, C., see Chanclou, P. 248 (2005) 167

Dagens, B., see Hessler, T.P. 248 (2005) 267
Dai, C., see Zhang, J. 248 (2005) 257
Dai, C., L. Liu, D. Liu, Z. Chai and Z. Luan, Optimizations for the uniformity of the non-volatile volume grating in doubly doped $LiNbO_3$ crystals 248 (2005) 27
Dai, W.-T., see Cheng, C.-J. 248 (2005) 105
Dai, X., S.J. Mihailov, C. Blanchetière, C.L. Callender and R.B. Walker, High birefringence control and polarization insensitive Bragg grating fabricated in PECVD planar waveguide with UV polarized irradiation 248 (2005) 123
Danckaert, J., see Albert, J. 248 (2005) 527
Deng, D., X. Fu, Y. Tian, K. Yi, J. Shao and Z. Fan, Far-field intensity distribution of beam generated by Gaussian mirror resonator 248 (2005) 185
De Souza, R., see Palacios, F. 248 (2005) 41
Deveaud, B., see Hessler, T.P. 248 (2005) 267
Ding, W., L. Chen and S. Liu, Localization properties and the effects on multi-mode switching in discrete mode CCWs 248 (2005) 479
Ditlbacher, H., see Salerno, M. 248 (2005) 543
Divall, M., see Osvay, K. 248 (2005) 201
Djurišić, A.B., see Cheung, C.H. 248 (2005) 287

Dogariu, A., see Ellis, J. 248 (2005) 333
D'Oliveira, P., see Renault, A. 248 (2005) 535
Dupertuis, M.-A., see Hessler, T.P. 248 (2005) 267

Eckardt, R.C., see Balachninaite, O. 248 (2005) 15
Efimov, A., see Joly, N.Y. 248 (2005) 281
Eggleton, B.J., see Martijn de Sterke, C. 248 (2005) 117
Elezzabi, A.Y., see Chau, K.J. 248 (2005) 307
Ellis, J., A. Dogariu, S. Ponomarenko and E. Wolf, Degree of polarization of statistically stationary electromagnetic fields 248 (2005) 333
Emery, J.-Y., see Hessler, T.P. 248 (2005) 267
Ermilov, E.A., see Hackbarth, S. 248 (2005) 295
Erneux, T., see Albert, J. 248 (2005) 527

Fallahi, M., see Zhang, H. 248 (2005) 415
Fan, Z., see Deng, D. 248 (2005) 185
Ferincz, I.E., see Osvay, K. 248 (2005) 201
Flury, M., P. Gérard, Y. Takakura, P. Twardworski and J. Fontaine, Investigation of M^2 factor influence for paraxial computer generated hologram reconstruction using a statistical method 248 (2005) 347
Fontaine, J., see Flury, M. 248 (2005) 347
Frandsen, L.H., see Xing, P.F. 248 (2005) 179
Franta, D. and I. Ohlídal, Comparison of effective medium approximation and Rayleigh–Rice theory concerning ellipsometric characterization of rough surfaces 248 (2005) 459
Fu, X., see Deng, D. 248 (2005) 185

Gamet, J. and G. Pandraud, Field matching Y-branch for low loss power splitter 248 (2005) 423
Gao, Y.-M., see Huang, C.-F. 248 (2005) 449
Garcia-Sucerquia, J., see Castaneda, R. 248 (2005) 147
García-Sucerquia, J., see Castañeda, R. 248 (2005) 509
Gasteratos, A., see Konstantinidis, K. 248 (2005) 375
Gérard, P., see Flury, M. 248 (2005) 347
Gonçalves, E., see Palacios, F. 248 (2005) 41
Goto, H. and K. Ichimura, Nonclassical photon statistics of the light from a weakly driven cavity containing weakly driven two-level atoms 248 (2005) 493
Greenstein, S. and M. Rosenbluh, The influence of nonlinear spectral bandwidth on single longitudinal mode intra-cavity second harmonic generation 248 (2005) 241
Grigonis, R., see Balachninaite, O. 248 (2005) 15
Guo, W.-H., see Chen, Q. 248 (2005) 309
Guo, R., see Huang, C.-F. 248 (2005) 449

Hackbarth, S., E.A. Ermilov and B. Röder, Interaction of Pheophorbide a molecules covalently linked to DAB dendrimers 248 (2005) 295
Haider, M.R., M.N. Islam, M.S. Alam and J.F. Khan, Shifted phase-encoded fringe-adjusted joint transform correlation for multiple target detection 248 (2005) 69
Hamilton, D.S., see Pham, V.-T. 248 (2005) 89
Hanson, S.G., see Wang, W. 248 (2005) 59
Harpøth, A., see Xing, P.F. 248 (2005) 179
Hashimoto, K., see Naraoka, R. 248 (2005) 249

Heiner, Z., see Osvay, K. 248 (2005) 201
Henao, R., see Barrera, J.F. 248 (2005) 35
Hessler, T.P., P.E. Selbmann, J.L. Pleumeekers, M.-A. Dupertuis, B. Deveaud, R. Schreieck, J.-Y. Emery and B. Dagens, Propagation effects on the ultrafast cross-gain modulation in semiconductor optical amplifiers 248 (2005) 267
Hohenau, A., see Salerno, M. 248 (2005) 543
Huang, C.-F., R. Guo, S.-M. Liu, N. Zhu, D.-Y. Wang, Y.-M. Gao and Y. Lu, Spatiotemporal coherence of white light beam trapped within dark spatial soliton 248 (2005) 449
Huang, Y.-Z., see Chen, Q. 248 (2005) 309
Hwang, K.-C., see Yu, H.H. 248 (2005) 51
Hwang, S.-J., see Yu, H.H. 248 (2005) 51

Ichimura, K., see Goto, H. 248 (2005) 493
Ishii, N., see Wang, W. 248 (2005) 59
Islam, M.N., see Haider, M.R. 248 (2005) 69

Jiang, W., see Zhou, J. 248 (2005) 407
Joly, N.Y., F.G. Omenetto, A. Efimov, A.J. Taylor, J.C. Knight and P.S.J. Russell, Competition between spectral splitting and Raman frequency shift in negative-dispersion slope photonic crystal fiber 248 (2005) 281

Kajikawa, K., see Naraoka, R. 248 (2005) 249
Kar, A.K., see Bookey, H.T.G. 248 (2005) 229
Khan, J.F., see Haider, M.R. 248 (2005) 69
King, T.A., see Qamar, F.Z. 248 (2005) 501
Klebniczki, J., see Osvay, K. 248 (2005) 201
Knight, J.C., see Joly, N.Y. 248 (2005) 281
Konstantinidis, K., A. Gasteratos and I. Andreadis, Image retrieval based on fuzzy color histogram processing 248 (2005) 375
Kovács, A.P., see Osvay, K. 248 (2005) 201
Krenn, J.R., see Salerno, M. 248 (2005) 543
Kripesh, V., see Priyadarshi, A. 248 (2005) 191
Kristensen, M., see Xing, P.F. 248 (2005) 179
Kumar, A., see Biswas, D.J. 248 (2005) 521
Kurdi, G., see Osvay, K. 248 (2005) 201
Kwong, C.Y., see Cheung, C.H. 248 (2005) 287

Laemmlin, M., see Uskov, A.V. 248 (2005) 211
Ledentsov, N.N., see Uskov, A.V. 248 (2005) 211
Lee, S.-K., see Pham, V.-T. 248 (2005) 89
Leitner, A., see Salerno, M. 248 (2005) 543
Li, C.-R., see Song, Q. 248 (2005) 1
Li, J.-Y., see Song, Q. 248 (2005) 1
Li, S.-F., see Song, Q. 248 (2005) 1
Li, X., see Zhou, J. 248 (2005) 407
Lim, K.-S., see Pham, V.-T. 248 (2005) 89
Lin, L.-C., see Cheng, C.-J. 248 (2005) 105
Lin, Y.-T., see Wei, M.-D. 248 (2005) 7
Liu, D., see Dai, C. 248 (2005) 27

Liu, L., see Dai, C. 248 (2005) 27
Liu, S., see Ding, W. 248 (2005) 479
Liu, S.-M., see Huang, C.-F. 248 (2005) 449
Liu, Z.T., see Cheung, C.H. 248 (2005) 287
Lu, Y., see Huang, C.-F. 248 (2005) 449
Lu, Y., see Luo, H. 248 (2005) 97
Luan, Z., see Dai, C. 248 (2005) 27
Luo, H., C. Zhou, H. Zou and Y. Lu, Talbot-SNOM method for non-contact evaluation of high-density gratings 248 (2005) 97

Maksymov, I.S., L.F. Marsal, M.A. Ustyantsev and J. Pallarès, Band structure calculation in two-dimensional Kerr-nonlinear photonic crystals 248 (2005) 469
Marsal, L.F., see Maksymov, I.S. 248 (2005) 469
Martijn de Sterke, C. and B.J. Eggleton, Spectral Talbot effect: interpretation via band diagrams 248 (2005) 117
McClimans, M., see Stites, R. 248 (2005) 173
Mhaisalkar, S.G., see Priyadarshi, A. 248 (2005) 191
Mihailov, S.J., see Dai, X. 248 (2005) 123
Miyamoto, Y., see Wang, W. 248 (2005) 59

Nagler, B., see Albert, J. 248 (2005) 527
Naraoka, R., H. Okawa, K. Hashimoto and K. Kajikawa, Surface plasmon resonance enhanced second-harmonic generation in Kretschmann configuration 248 (2005) 249
Nilaya, J.P., see Biswas, D.J. 248 (2005) 521

Obayya, S.S.A., see Assalem, A. 248 (2005) 221
Ohlídal, I., see Franta, D. 248 (2005) 459
Okawa, H., see Naraoka, R. 248 (2005) 249
Omenetto, F.G., see Joly, N.Y. 248 (2005) 281
O'Reilly, E.P., see Uskov, A.V. 248 (2005) 211
Osvay, K., A.P. Kovács, G. Kurdi, Z. Heiner, M. Divall, J. Klebniczki and I.E. Ferincz, Measurement of non-compensated angular dispersion and the subsequent temporal lengthening of femtosecond pulses in a CPA laser 248 (2005) 201

Palacios, D., see Palacios, F. 248 (2005) 41
Palacios, F., J. Ricardo, D. Palacios, E. Gonçalves, J.L. Valin and R. De Souza, 3D image reconstruction of transparent microscopic objects using digital holography 248 (2005) 41
Pallarès, J., see Maksymov, I.S. 248 (2005) 469
Panajotov, K., see Albert, J. 248 (2005) 527
Pandraud, G., see Gamet, J. 248 (2005) 423
Patil, A., P. Rastogi and B. Raphael, A stochastic method for generalized data reduction in holographic moiré 248 (2005) 395
Perdian, M., A. Raczyński, J. Zaremba and S. Zielińska-Kaniasty, Light slowdown in the vicinity of cross-over resonances 248 (2005) 485
Pham, V.-T., S.-K. Lee, M.-T. Trinh, K.-S. Lim, D.S. Hamilton and K. Polgár, Nonvolatile two-color holographic recording in Tm-doped near-stoichiometric $LiNbO_3$ 248 (2005) 89
Planchon, T., see Renault, A. 248 (2005) 535
Pleumeekers, J.L., see Hessler, T.P. 248 (2005) 267

Polgár, K., see Pham, V.-T. 248 (2005) 89
Ponomarenko, S., see Ellis, J. 248 (2005) 333
Priyadarshi, A., P.V. Ramana, S.G. Mhaisalkar, V. Kripesh, Q. Zhang and A.K. Asundi, Optical coupling efficiency studies of passively aligned CWDM optical modules 248 (2005) 191

Qamar, F.Z. and T.A. King, Passive Q-switching of the Tm-silica fibre laser near 2 μm by a Cr^{2+}:ZnSe saturable absorber crystal 248 (2005) 501

Raczyński, A., see Perdian, M. 248 (2005) 485
Rakić, A.D., see Cheung, C.H. 248 (2005) 287
Ramana, P.V., see Priyadarshi, A. 248 (2005) 191
Raphael, B., see Patil, A. 248 (2005) 395
Rastogi, P., see Patil, A. 248 (2005) 395
Renault, A., F. Augé-Rochereau, T. Planchon, P. D'Oliveira, T. Auguste, G. Chériaux and J.-P. Chambaret, ASE contrast improvement with a non-linear filtering Sagnac interferometer 248 (2005) 535
Ricardo, J., see Palacios, F. 248 (2005) 41
Röder, B., see Hackbarth, S. 248 (2005) 295
Rosenbluh, M., see Greenstein, S. 248 (2005) 241
Roy, M., see Chanclou, P. 248 (2005) 167
Roychowdhury, H. and E. Wolf, Statistical similarity and the physical significance of complete spatial coherence and complete polarization of random electromagnetic beams 248 (2005) 327
Russell, P.S.J., see Joly, N.Y. 248 (2005) 281

Salerno, M., J.R. Krenn, A. Hohenau, H. Ditlbacher, G. Schider, A. Leitner and F.R. Aussenegg, The optical near-field of gold nanoparticle chains 248 (2005) 543
Schider, G., see Salerno, M. 248 (2005) 543
Schreieck, R., see Hessler, T.P. 248 (2005) 267
Selbmann, P.E., see Hessler, T.P. 248 (2005) 267
Sen, S. and V.K. Chaubey, A novel electronic device for high speed WDM optical network operations capable of intelligent routing based on simulated electrical network approach 248 (2005) 131
Shakher, C., see Tay, C.J. 248 (2005) 339
Shao, J., see Deng, D. 248 (2005) 185
Shiao, W.-L., see Wei, M.-D. 248 (2005) 7
Sirutkaitis, V., see Balachninaite, O. 248 (2005) 15
Song, C.-L., see Song, Q. 248 (2005) 1
Song, Q., C.-L. Song, C.-R. Li, S.-F. Li and J.-Y. Li, Design for non-uniformly doped Erbium-doped waveguide amplifiers in the propagation direction 248 (2005) 1
Stites, R., M. McClimans and S. Bali, Large atom-density change at constant temperature by varying trap anisotropy in a dilute magneto-optical trap 248 (2005) 173
Su, Y., see Yu, J. 248 (2005) 419

Takakura, Y., see Flury, M. 248 (2005) 347
Takeda, M., see Wang, W. 248 (2005) 59
Tam, H.L., see Cheung, C.H. 248 (2005) 287

Tay, C.J., M. Thakur, L. Chen and C. Shakher, Measurement of focal length of lens using phase shifting Lau phase interferometry 248 (2005) 339
Taylor, A.J., see Joly, N.Y. 248 (2005) 281
Thakur, M., see Tay, C.J. 248 (2005) 339
Tian, Y., see Deng, D. 248 (2005) 185
Torroba, R., see Barrera, J.F. 248 (2005) 35
Trinh, M.-T., see Pham, V.-T. 248 (2005) 89
Twardworski, P., see Flury, M. 248 (2005) 347

Uskov, A.V., E.P. O'Reilly, M. Laemmlin, N.N. Ledentsov and D. Bimberg, On gain saturation in quantum dot semiconductor optical amplifiers 248 (2005) 211
Ustyantsev, M.A., see Maksymov, I.S. 248 (2005) 469

Valin, J.L., see Palacios, F. 248 (2005) 41
Van der Sande, G., see Albert, J. 248 (2005) 527
Veretennicoff, I., see Albert, J. 248 (2005) 527
Vinouze, B., see Chanclou, P. 248 (2005) 167

Walker, R.B., see Dai, X. 248 (2005) 123
Wang, D.-Y., see Huang, C.-F. 248 (2005) 449
Wang, W., N. Ishii, S.G. Hanson, Y. Miyamoto and M. Takeda, Phase singularities in analytic signal of white-light speckle pattern with application to micro-displacement measurement 248 (2005) 59
Wang, Y., see Zhou, J. 248 (2005) 407
Wei, M.-D., W.-L. Shiao and Y.-T. Lin, Adjustable generation of bottle and hollow beams using an axicon 248 (2005) 7
Wolf, E., see Ellis, J. 248 (2005) 333
Wolf, E., see Roychowdhury, H. 248 (2005) 327

Xiaoyan, L., see Baozhen, Z. 248 (2005) 387
Xing, P.F., P.I. Borel, L.H. Frandsen, A. Harpøth and M. Kristensen, Optimization of bandwidth in 60° photonic crystal waveguide bends 248 (2005) 179

Yang, Q., see Zhang, J. 248 (2005) 257
Yi, K., see Deng, D. 248 (2005) 185
Yu, H.H., S.-J. Hwang and K.-C. Hwang, Preparation and characterization of a novel flexible substrate for OLED 248 (2005) 51
Yu, J., G.K. Chang, J. Barry and Y. Su, 40 Gbit/s signal format conversion from NRZ to RZ using a Mach-Zehnder delay interferometer 248 (2005) 419
Yu, L.-J., see Chen, Q. 248 (2005) 309
Yuxin, L., see Baozhen, Z. 248 (2005) 387

Zaremba, J., see Perdian, M. 248 (2005) 485
Zhang, H. and M. Fallahi, Electro-optic waveguide based on hybrid sol–gel doped with organic chromophore 248 (2005) 415
Zhang, J. and T. Aruga, Multiplexed holographic memory by use of fiber bundle referencing 248 (2005) 431
Zhang, J., Q. Yang and C. Dai, Optical quasi-soliton solutions for higher-order nonlinear Schrödinger equation with variable coefficients 248 (2005) 257

Zhang, Q., see Priyadarshi, A. 248 (2005) 191
Zhang, Y., Nonparaxial propagation analysis of elliptical Gaussian beams diffracted by a circular aperture 248 (2005) 317
Zhizhan, X., see Baozhen, Z. 248 (2005) 387
Zhou, C., see Luo, H. 248 (2005) 97
Zhou, J., J. Chen, X. Li, W. Jiang and Y. Wang, A novel pump adjustment method for WDM pumped optical Raman amplifier 248 (2005) 407
Zhou, Q.-C. and S.N. Zhu, Dynamics of a single-mode field interacting with a Λ-type three-level atom 248 (2005) 437
Zhu, N., see Huang, C.-F. 248 (2005) 449
Zhu, S.N., see Zhou, Q.-C. 248 (2005) 437
Zielińska-Kaniasty, S., see Perdian, M. 248 (2005) 485
Zocchi, F.E., A simple analytical model of adaptive optics for direct detection free-space optical communication 248 (2005) 359
Zou, H., see Luo, H. 248 (2005) 97

Available online at www.sciencedirect.com
SCIENCE DIRECT®
Optics Communications 248 (2005) 559–563
OPTICS COMMUNICATIONS
ELSEVIER
www.elsevier.com/locate/optcom

Subject index to volume 248

Physical optics

Q. Song, C.-L. Song, C.-R. Li, S.-F. Li and J.-Y. Li, Design for non-uniformly doped Erbium-doped waveguide amplifiers in the propagation direction 1

M.-D. Wei, W.-L. Shiao and Y.-T. Lin, Adjustable generation of bottle and hollow beams using an axicon 7

O. Balachninaite, R. Grigonis, V. Sirutkaitis and R.C. Eckardt, A coherent spectrophotometer based on a periodically poled lithium niobate optical parametric oscillator 15

Q. Chen, Y.-Z. Huang, W.-H. Guo and L.-J. Yu, Calculation of propagation loss in photonic crystal waveguides by FDTD technique and Padé approximation 309

Y. Zhang, Nonparaxial propagation analysis of elliptical Gaussian beams diffracted by a circular aperture 317

H. Roychowdhury and E. Wolf, Statistical similarity and the physical significance of complete spatial coherence and complete polarization of random electromagnetic beams 327

J. Ellis, A. Dogariu, S. Ponomarenko and E. Wolf, Degree of polarization of statistically stationary electromagnetic fields 333

C.J. Tay, M. Thakur, L. Chen and C. Shakher, Measurement of focal length of lens using phase shifting Lau phase interferometry 339

Optical information and image processing

C. Dai, L. Liu, D. Liu, Z. Chai and Z. Luan, Optimizations for the uniformity of the non-volatile volume grating in doubly doped $LiNbO_3$ crystals 27

J.F. Barrera, R. Henao and R. Torroba, Optical encryption method using toroidal zone plates 35

F. Palacios, J. Ricardo, D. Palacios, E. Gonçalves, J.L. Valin and R. De Souza, 3D image reconstruction of transparent microscopic objects using digital holography 41

H.H. Yu, S.-J. Hwang and K.-C. Hwang, Preparation and characterization of a novel flexible substrate for OLED 51

doi:10.1016/S0030-4018(05)00281-6

W. Wang, N. Ishii, S.G. Hanson, Y. Miyamoto and M. Takeda, Phase singularities in analytic signal of white-light speckle pattern with application to micro-displacement measurement 59

M.R. Haider, M.N. Islam, M.S. Alam and J.F. Khan, Shifted phase-encoded fringe-adjusted joint transform correlation for multiple target detection 69

V.-T. Pham, S.-K. Lee, M.-T. Trinh, K.-S. Lim, D.S. Hamilton and K. Polgár, Nonvolatile two-color holographic recording in Tm-doped near-stoichiometric $LiNbO_3$ 89

H. Luo, C. Zhou, H. Zou and Y. Lu, Talbot-SNOM method for non-contact evaluation of high-density gratings 97

C.-J. Cheng, L.-C. Lin and W.-T. Dai, Construction and detection of digital holographic watermarks 105

M. Flury, P. Gérard, Y. Takakura, P. Twardworski and J. Fontaine, Investigation of M^2 factor influence for paraxial computer generated hologram reconstruction using a statistical method 347

F.E. Zocchi, A simple analytical model of adaptive optics for direct detection free-space optical communication 359

K. Konstantinidis, A. Gasteratos and I. Andreadis, Image retrieval based on fuzzy color histogram processing 375

Z. Baozhen, L. Xiaoyan, L. Yuxin, W. Cheng and X. Zhizhan, Investigation of noncollinear QPM optical parametric amplification based on periodically poled KTP 387

A. Patil, P. Rastogi and B. Raphael, A stochastic method for generalized data reduction in holographic moiré 395

Guided wave optics

C. Martijn de Sterke and B.J. Eggleton, Spectral Talbot effect: interpretation via band diagrams 117

X. Dai, S.J. Mihailov, C. Blanchetière, C.L. Callender and R.B. Walker, High birefringence control and polarization insensitive Bragg grating fabricated in PECVD planar waveguide with UV polarized irradiation 123

S. Sen and V.K. Chaubey, A novel electronic device for high speed WDM optical network operations capable of intelligent routing based on simulated electrical network approach 131

R. Castaneda and J. Garcia-Sucerquia, Radiometry and spatial coherence wavelets 147

P. Chanclou, B. Vinouze, M. Roy and C. Cornu, Optical fibered variable attenuator using phase shifting polymer dispersed liquid crystal 167

J. Zhou, J. Chen, X. Li, W. Jiang and Y. Wang, A novel pump adjustment method for WDM pumped optical Raman amplifier 407

H. Zhang and M. Fallahi, Electro-optic waveguide based on hybrid sol–gel doped with organic chromophore 415

J. Yu, G.K. Chang, J. Barry and Y. Su, 40 Gbit/s signal format conversion from NRZ to RZ using a Mach-Zehnder delay interferometer 419

J. Gamet and G. Pandraud, Field matching Y-branch for low loss power splitter 423

J. Zhang and T. Aruga, Multiplexed holographic memory by use of fiber bundle referencing 431

Atomic and molecular physics

R. Stites, M. McClimans and S. Bali, Large atom-density change at constant temperature by varying trap anisotropy in a dilute magneto-optical trap 173

Q.-C. Zhou and S.N. Zhu, Dynamics of a single-mode field interacting with a Λ-type three-level atom 437

C.-F. Huang, R. Guo, S.-M. Liu, N. Zhu, D.-Y. Wang, Y.-M. Gao and Y. Lu, Spatiotemporal coherence of white light beam trapped within dark spatial soliton 449

Optical properties of condensed and soft matter

P.F. Xing, P.I. Borel, L.H. Frandsen, A. Harpøth and M. Kristensen, Optimization of bandwidth in 60° photonic crystal waveguide bends 179

D. Deng, X. Fu, Y. Tian, K. Yi, J. Shao and Z. Fan, Far-field intensity distribution of beam generated by Gaussian mirror resonator 185

D. Franta and I. Ohlídal, Comparison of effective medium approximation and Rayleigh–Rice theory concerning ellipsometric characterization of rough surfaces 459

I.S. Maksymov, L.F. Marsal, M.A. Ustyantsev and J. Pallarès, Band structure calculation in two-dimensional Kerr-nonlinear photonic crystals 469

Quantum optics

W. Ding, L. Chen and S. Liu, Localization properties and the effects on multi-mode switching in discrete mode CCWs 479

M. Perdian, A. Raczyński, J. Zaremba and S. Zielińska-Kaniasty, Light slowdown in the vicinity of cross-over resonances 485

H. Goto and K. Ichimura, Nonclassical photon statistics of the light from a weakly driven cavity containing weakly driven two-level atoms 493

Lasers and laser applications

A. Priyadarshi, P.V. Ramana, S.G. Mhaisalkar, V. Kripesh, Q. Zhang and A.K. Asundi, Optical coupling efficiency studies of passively aligned CWDM optical modules 191

K. Osvay, A.P. Kovács, G. Kurdi, Z. Heiner, M. Divall, J. Klebniczki and I.E. Ferincz, Measurement of non-compensated angular dispersion and the subsequent temporal lengthening of femtosecond pulses in a CPA laser 201

A.V. Uskov, E.P. O'Reilly, M. Laemmlin, N.N. Ledentsov and D. Bimberg, On gain saturation in quantum dot semiconductor optical amplifiers 211

A. Assalem, S.S.A. Obayya and H.S. Al-Raweshidy, Full vectorial finite element analysis of semiconductor lasers 221

H.T.G. Bookey and A.K. Kar, Characterisation and optimisation of a dual-channel picosecond gain-switched DFB laser system for use as a pump–probe source 229

F.Z. Qamar and T.A. King, Passive Q-switching of the Tm-silica fibre laser near 2 μm by a Cr^{2+}:ZnSe saturable absorber crystal 501

R. Castañeda, J. García-Sucerquia and J.F. Carrasquilla, Quality descriptors of optical beams based on centred reduced moments III: spot moments-based method for laser characterization 509

D.J. Biswas, J.P. Nilaya and A. Kumar, Operation of a helium-free TEA CO_2 laser 521

Nonlinear optics

S. Greenstein and M. Rosenbluh, The influence of nonlinear spectral bandwidth on single longitudinal mode intra-cavity second harmonic generation 241

R. Naraoka, H. Okawa, K. Hashimoto and K. Kajikawa, Surface plasmon resonance enhanced second-harmonic generation in Kretschmann configuration 249

J. Zhang, Q. Yang and C. Dai, Optical quasi-soliton solutions for higher-order nonlinear Schrödinger equation with variable coefficients 257

T.P. Hessler, P.E. Selbmann, J.L. Pleumeekers, M.-A. Dupertuis, B. Deveaud, R. Schreieck, J.-Y. Emery and B. Dagens, Propagation effects on the ultrafast cross-gain modulation in semiconductor optical amplifiers 267

J. Albert, G. Van der Sande, B. Nagler, K. Panajotov, I. Veretennicoff, J. Danckaert and T. Erneux, The effects of nonlinear gain on the stability of semi-degenerate two-mode semiconductor lasers: a case study on VCSELs 527

A. Renault, F. Augé-Rochereau, T. Planchon, P. D'Oliveira, T. Auguste, G. Chériaux and J.-P. Chambaret, ASE contrast improvement with a non-linear filtering Sagnac interferometer 535

Nano and micro optics

N.Y. Joly, F.G. Omenetto, A. Efimov, A.J. Taylor, J.C. Knight and P.S.J. Russell, Competition between spectral splitting and Raman frequency shift in negative-dispersion slope photonic crystal fiber 281

C.H. Cheung, A.B. Djurišić, C.Y. Kwong, H.L. Tam, K.W. Cheah, Z.T. Liu, W.K. Chan, P.C. Chui, J. Chan and A.D. Rakić, Reduced angular dependence of the emission from tris(8-hydroxyquinoline) aluminum based microcavity 287

M. Salerno, J.R. Krenn, A. Hohenau, H. Ditlbacher, G. Schider, A. Leitner and F.R. Aussenegg, The optical near-field of gold nanoparticle chains 543

Bio and medical optics

S. Hackbarth, E.A. Ermilov and B. Röder, Interaction of Pheophorbide a molecules covalently linked to DAB dendrimers 295

Erratum

K.J. Chau and A.Y. Elezzabi, Erratum to "Two-dimensional drift-diffusion analysis of magnetic field enhanced THz emission from semiconductor surfaces" [Opt. Commun. 242 (2004) 295–304] 307